

# Notice of Allowability

Application No.

09/608,232

Examiner

Tammy T. Nguyen

Applicant(s)

DODRILL ET AL.

Art Unit

2144

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to after final file on July 3, 2007.
2. ☒ The allowed claim(s) is/are 1, 3, 5-7, 9, 11-14, 37-41(new claims 1-15).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

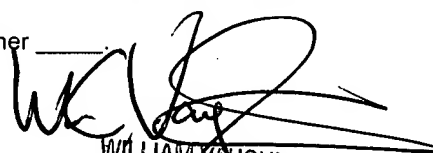
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 7/19/07, 7/23/07.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
WILLIAM VAUGHN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENT  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20590  
www.uspto.gov

**EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. James F. Thompson (reg. 36,699) on July 19, 2007.

3. The applicant has been amended as follow:

Specification:

Please insert "**storage**" after word "readable", on page 30, line 16 of specification.

Art Unit: 2144

Claims:

1. (Currently amended) A method in a browser for providing an audibly controlled user interface for a limited communication device, the steps comprising: receiving speech input information over an interface connection capable of two-way communication with the limited communication device; generating at least one key chunk of information based on the speech input information; generating an audio output developed from a response document based on the at least one key chunk of information; and providing the audio output over the interface connection to the limited communication device in response to generating the audio output [[:]] , wherein the audio output comprises: providing the at least one key chunk of information to a web application; and receiving the response document from the web application, the response document developed from an application-defining document accessed in response to the at least one key chunk of information provided to the web application; wherein the step of generating the at least one key chunk of information comprises generating the at least one key chunk of information by an automatic speech recognition module deriving the at least one key chunk of information from the speech input information and further comprising: sending and receiving web pages to and from an application server according to a hypertext transfer protocol; parsing XML tags appearing within web pages received by the browser:

Art Unit: 2144

Performing basic telephony functions including [( )]detecting an on-hook condition and an off-hook condition of a user device and sending and receiving audio signals to and from the user device [( )]; and

selectively implementing hypertext markup language (HTML) and XML tags appearing within the web pages received by the browser based on capabilities of the user device, the capabilities being stored in a device capabilities table which includes for the user device a unique device identifier, a network address selected from [( )] a telephone number and an IP address [( )]and a specification of capabilities of the user device, the specification of capabilities including whether the user device accepts only text data whether the user device is able to respond to multiple prompts, whether the user device accepts digital audio data or only analog audio data, whether the user device has a microphone for generating analog audio signals, and whether the user device has an analog to digital converter for converting the analog audio signals to digital audio data.

2. (Cancelled)

3. (Original) The method of claim 1, wherein the step of receiving the speech input information comprises receiving the speech input information over a telephony connection to the limited communication device; and

the step of providing the audio output over the interface connection comprises providing the audio output over the telephony connection.

4. (Cancelled)

5. (Original) The method of claim 1, wherein the step of receiving the speech input information comprises receiving an input indicating an initial access to the limited communication device.

Art Unit: 2144

6. (Original) The method of claim 1, wherein the step of receiving the speech input information comprises receiving at least one of a command for storing data, a command for retrieving data, and a command for placing an outbound telephony call.

7. (Currently amended) A processor-based system for providing an audibly controlled interface for a limited communication device, the processor-based system comprising:

an interface connection capable of two-way communication with the limited communication device; and

a proxy browser in communication with the interface connection; wherein the interface connection receives speech input information and provides the speech input information to the proxy browser; the proxy browser generates at least one key chunk of information based on the speech input information;

the proxy browser generates an audio output developed from a response document based on the at least one key chunk of information and provides the audio output to the interface connection; and

the interface connection provides the audio output to the limited communication device

[[:]], wherein the audio output comprises: providing the at least one key chunk of information to a web application; and receiving the response document from the web application, the response document developed from an application-defining document accessed in response to the at least one key chunk of information provided to the web application;

Art Unit: 2144

an automatic speech recognition module, wherein the automatic speech recognition module derives the at least one key chunk of information from the speech input information received over the interface connection;

wherein the proxy browser comprises:

a web browser configured for sending and receiving web pages to and from an application server according to a hypertext transfer protocol;

an XML parser operative to parse XML tags appearing within web pages received by the web browser

a device interface operative to perform basic telephony functions including detecting an on-hook condition and an off-hook condition of a user device, and sending and receiving audio signals to and from the user device; and

a voice resource control configured for selectively implementing hypertext markup language (HTML) and XML tags appearing within the web pages received by the browser based on capabilities of the user device, the capabilities being stored in a device capabilities table which includes for the user device a unique device identifier, a network address selected from a telephone number and an IP address, and a specification of capabilities of the user device, the specification of capabilities including whether the user device accepts only text data, whether the user device is able to respond to multiple prompts, whether the user device accepts digital audio data or only analog audio data, whether the user device has a microphone for generating analog audio signals, and whether the user device has an analog to digital converter for converting the analog audio signals to digital audio data.

8. (Cancelled)

9. (Original) The system of claim 7, wherein the interface connection is a telephony connection.

10. (Cancelled)

11. (Original) The system of claim 7, wherein the speech input information comprises an input indicating an initial access to the limited communication device.

12. (Original) The system of claim 7, wherein the speech input information comprises at least one of a command for storing data, a command for retrieving data, and a command for placing an outbound telephony call.

13. (Currently amended) A processor-based system for providing an audibly controlled interface for a limited communication device, the processor-based system comprising:

an interface connection capable of two-way communication with the limited communication device; and

means for generating an audio output, the generating means in communication with the interface connection, wherein the interface connection receives speech input information and provides the speech input information to the generating means; the generating means generates at least one key chunk of information based on the speech input information; the generating means generates an audio output developed from a response document based on the at least one key chunk of information and provides the audio output to the interface connection [[:]], wherein the audio output comprises: providing the at least one key chunk of information to a web application; and receiving the response document from the web application, the response document developed from an application-defining

Art Unit: 2144

document accessed in response to the at least one key chunk of information provided to the web application;

the interface connection provides the audio output to the limited communication device; and an automatic speech recognition module, wherein the automatic speech recognition module derives the at least one key chunk of information from the speech input information received over the interface connection wherein the generating means comprises:

means for sending and receiving web pages to and from an application server according to a hypertext transfer protocol;

means for parsing XML tags appearing within web pages received by the web browser;

means for performing basic telephony functions including [( )]detecting an on-hook condition and an off-hook condition of a user device, and sending and receiving audio signals to and from the user device [( )]; and

means for selectively implementing hypertext markup language (HTML) and XML tags appearing within the web pages received by the browser based on capabilities of the user device, the capabilities being stored in a device capabilities table which includes for the user device a unique device identifier, a network address selected from [( )]a telephone number and an IP address [( )], and a specification of capabilities of the user device the specification of capabilities including whether the user device accepts only text data, whether the user device is able to respond to multiple prompts, whether the user device accepts digital audio data or only analog audio data, whether the user device has a microphone for generating analog audio signals, and whether the user device has an analog to digital converter for converting the analog audio signals to digital audio data.



Art Unit: 2144

14. (Currently amend) A computer program product that stored on a computer readable storage medium having instructions stored thereon for providing an audibly controlled interface for a limited communication device, such that the instructions, when carried out by a computer, cause the computer to perform the steps of:

receiving speech input information over an interface connection capable of two-way communication with the limited communication device;

generating at least one key chunk of information based on the speech input information;

generating an audio output developed from a response document based on the at least one key chunk of information; and

providing the audio output over the interface connection to the limited communication device in response to generating the audio output [[:]], wherein the audio output comprises: providing the at least one key chunk of information to a web application; and receiving the response document from the web application, the response document developed from an application-defining document accessed in response to the at least one key chunk of information provided to the web application;

wherein the step of generating the at least one key chunk of information comprises generating the at least one key chunk of information by an automatic speech recognition module deriving the at least one key chunk of information from the speech input information and further cause the computer to perform the steps of:

sending and receiving web pages to and from an application server according to a hypertext transfer protocol;

Parsing XML tags appearing within web pages received by the browser;

Art Unit: 2144

performing basic telephony functions including [( )]detecting an on-hook condition and an off-hook condition of a user device, and sending and receiving audio signals to and from the user device [( )]: and

selectively implementing hypertext markup language (HTML) and XML tags appearing within the web pages received by the browser based on capabilities of the user device, the capabilities being stored in a device capabilities table which includes for the user device a unique device identifier, a network address selected from [( )] a telephone number and an IP address[( )], and a specification of capabilities of the user device, the specification of capabilities including whether the user device accepts only text data. whether the user device is able to respond to multiple prompts, whether the user device accepts digital audio data or only analog audio data, whether the user device has a microphone for generating analog audio signals, and whether the user device has an analog to digital converter for converting the analog audio signals to digital audio data.

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18-36. (Cancelled)

37. (Original) The method of claim 1 wherein the browser is configured to retrieved web-based documentation containing markup language on behalf of multiple user devices; wherein the response document is a web page containing a markup language reference to a sound file; and wherein the step of generating the audio output includes the step of: playing the sound file referenced by the markup language reference contained in the web page in order to generate the audio output.

Art Unit: 2144

38. (Original) The method of claim 37 wherein the step of receiving the speech input includes the step of obtaining an incoming wireless signal from a wireless user device, the wireless signal carrying the speech input; wherein the step of generating the at least one key chunk of information includes the step of parsing the web page to identify the markup language reference to the sound file; and wherein the step of providing the audio output includes the step of transmitting an outgoing wireless signal to the wireless user device, the outgoing wireless signal carrying the audio output.

39. (Original) The method of claim 7 wherein the browser is configured to retrieve web-based documentation containing markup language on behalf of multiple user devices; wherein the response document is a web page containing a markup language reference to a sound file; and wherein the step of generating the audio output includes the step of: playing the sound file referenced by the markup language reference contained in the web page in order to generate the audio output.

40. (Original) The method of claim 37 wherein the step of receiving the speech input includes the step of obtaining an incoming wireless signal from a wireless user device, the wireless signal carrying the speech input; wherein the step of generating the at least one key chunk of information includes the step of parsing the web page to identify the markup language reference to the sound file; and wherein the step of providing the audio output includes the step of transmitting an outgoing wireless signal to the wireless user device, the outgoing wireless signal carrying the audio output.

41. (Currently amend) A method in a browser for providing an audibly controlled user interface for a limited communication device, the steps comprising: receiving speech input information including at least one of an input indicating an initial access to the

Art Unit: 2144

limited communication device over a telephony connection, command for storing data, a command for retrieving data, and a command for placing an outbound telephony call; generating the at least one key chunk of information by an automatic speech recognition module deriving the at least one key chunk of information from the speech input information; generating an audio output developed from a response document based on the at least one key chunk of information to a web application and receiving the response document from the web application, the response document developed from an application-defining document access in response to the at least one key chunk of information provided to the web application; and providing the audio over the telephony connection to the limited communication device in response to generating the audio output; sending and receiving web pages to and from an application server according to a hypertext transfer protocol; parsing XML tags appearing within web pages received by the browser; performing basis telephony functions including [( )] detecting an on-hook condition and an off-hook condition of a user device, and sending and receiving audio signals to and from the user device [( )]; and selectively implementing hypertext markup language (HTML) and XML tags appearing within the web pages received by the browser based on capabilities of the user device, the capabilities being stored in a device capabilities table which includes for the user device a unique device identifier, a network address selected from [( )] a telephone number and an IP address[( )], and a specification of capabilities of the user device, the specification of capabilities including whether the user device accepts only text data, whether the user device is able to respond to multiple prompts, whether the user device accepts digital audio data or only analog audio data, whether the user device has a microphone for generating analog audio

Art Unit: 2144

signals, and whether the user device has an analog to digital converter for converting the analog audio signals to digital audio data.

42-47. (Cancelled).

4. The following is an examiner's statement of reasons for allowance:

In interpreting the claims, in light of the specification and the applicant's arguments filed on July 3, 2007 the examiner finds the claimed invention to be patentably distinct from the prior art of record.

5. Day et al., (6,243,722), teaches A method and system in a computer network for assisting users in collectively creating documents with minimal document intrusiveness via the computer network. Initially, a document is displayed in a graphic interface of a computer in a computer network, such that the document may also be displayed at any one of a number of computers within the computer network. Next, portions of the document are designated which may be commented upon by users. These portions of the document are automatically associated with displayable interface wherein users may enter comments pertaining to the document. The displayable interface is then displayed within the graphic interface, in response to user input. A user is then permitted to enter comments pertaining to the document within the displayable interface, such that the comments may be separately stored, subsequently retrieved and utilized in the creation of the document without cluttering. The displayable interface is then automatically closed

Art Unit: 2144

upon completion of an entry of comments pertaining to the document within the displayable interface.

6. Murtaza Ali., (6,144,937), teaches A communications device, such as a cellular telephone handset (10), and a method of operating the same to suppress noise in audio information such as speech, is presented. The handset (10) includes a digital signal processor (DSP) (30) having program memory (31) for controlling the DSP (30) to apply a hierarchical lapped transform to the input digital sequence. The hierarchical lapped transform decomposes the input sequence into coefficients representative of plurality of sub-bands corresponding to critical bands of the human ear. Each coefficient is modified by a noise suppression filter operator, based upon a ratio of an estimate of the noise power to an estimate of the signal power in the corresponding sub-band; clamping of changes in the noise power estimate over time, and use of a decaying signal envelope estimate, eliminate distortion in the processed signal. Musical noise is eliminated by using a minimum gain value in each sub-band. Inverse transformation of the modified coefficients provides the filtered time-domain output signal. Improved noise suppression is provided, in a manner that may be readily and robustly performed by fixed-point digital signal processors.

7. However, the prior art of record fails to teach or suggest a method in a browser for providing an audibly controlled user interface for a limited communication device, the steps comprising: receiving speech input information over an interface connection

Art Unit: 2144

capable of two-way communication with the limited communication device; generating at least one key chunk of information based on the speech input information;

generating an audio output developed from a response document based on the at least one key chunk of information; and providing the audio output over the interface connection to the limited communication device in response to generating the audio output, wherein the audio output comprises: providing the at least one key chunk of information to a web application; and receiving the response document from the web application, the response document developed from an application-defining document accessed in response to the at least one key chunk of information provided to the web application; wherein the step of generating the at least one key chunk of information comprises generating the at least one key chunk of information by an automatic speech recognition module deriving the at least one key chunk of information from the speech input information and further comprising: sending and receiving web pages to and from an application server according to a hypertext transfer protocol; parsing XML tags appearing within web pages received by the browser: Performing basic telephony functions including detecting an on-hook condition and an off-hook condition of a user device and sending and receiving audio signals to and from the user device; and selectively implementing hypertext markup language (HTML) and XML tags appearing within the web pages received by the browser based on capabilities of the user device, the capabilities being stored in a device capabilities table which includes for the user device a unique device identifier, a network address selected from a telephone number and an IP address and a specification of capabilities of the user device, the specification of capabilities including whether the user device accepts only text data whether the user device is able to respond to multiple

Art Unit: 2144

prompts, whether the user device accepts digital audio data or only analog audio data, whether the user device has a microphone for generating analog audio signals, and whether the user device has an analog to digital converter for converting the analog audio signals to digital audio data as set forth in independent claims 1, 7, 13, and 14 and 41. Claims 3, 5-6, 9, 11-12, and 37-40 are allowed because of the combination of other limitations and the limitation listed above.

8. The examiner finds the Applicant's arguments on pages 2-4 of the Remarks filed on July 3, 2007 to be persuasive. The applicant argued in substance that the prior art of record fail to disclose the feature of the invention. Also see specification, pages 17-26.

9. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submission should be clearly labeled "Comments on Examiner's Amendment".

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tammy T. Nguyen whose telephone number is 571-272-3929. The examiner can normally be reached on Monday - Friday 8:30 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, *William Vaughn* can be reached on 571-272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status

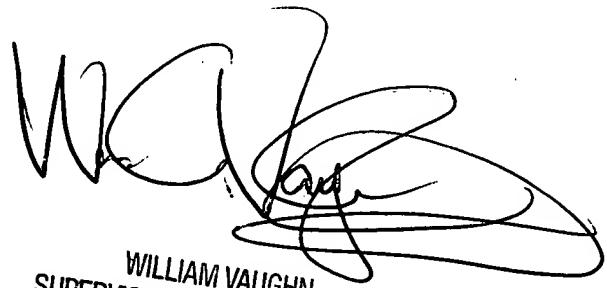


Art Unit: 2144

information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DN

July 19, 2007



WILLIAM VAUGHN  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100